

FreoRange™

Sollatek Refrigeration Solutions

Complete temperature control, energy saving, voltage protection and voltage stabilisation for all refrigeration appliances.



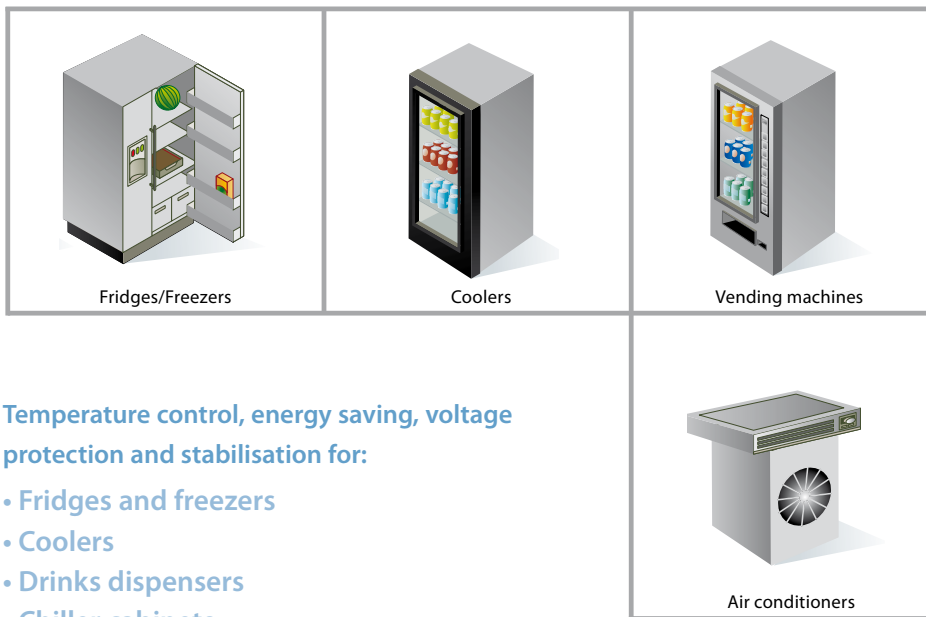
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The Sollatek Refrigeration Solutions

Complete temperature control, energy saving, voltage protection and voltage stabilisation for all refrigeration appliances.



Temperature control, energy saving, voltage protection and stabilisation for:

- Fridges and freezers
- Coolers
- Drinks dispensers
- Chiller cabinets
- Refrigerated displays
- Vending machines

As the problems associated with global warming become more widely recognised, measures to save energy, and therefore the environment, become increasingly desirable.

The FreoRange from Sollatek enables cooler manufacturers to produce a more energy-efficient product, thereby reducing CO₂ emissions and reducing electricity bills for vendors. Moreover Sollatek's range of high accuracy units ensures the beverage or chilled product is always served at the optimum temperature. This has the added benefit of allowing the cooler to comply with ever more stringent energy efficiency regulations.

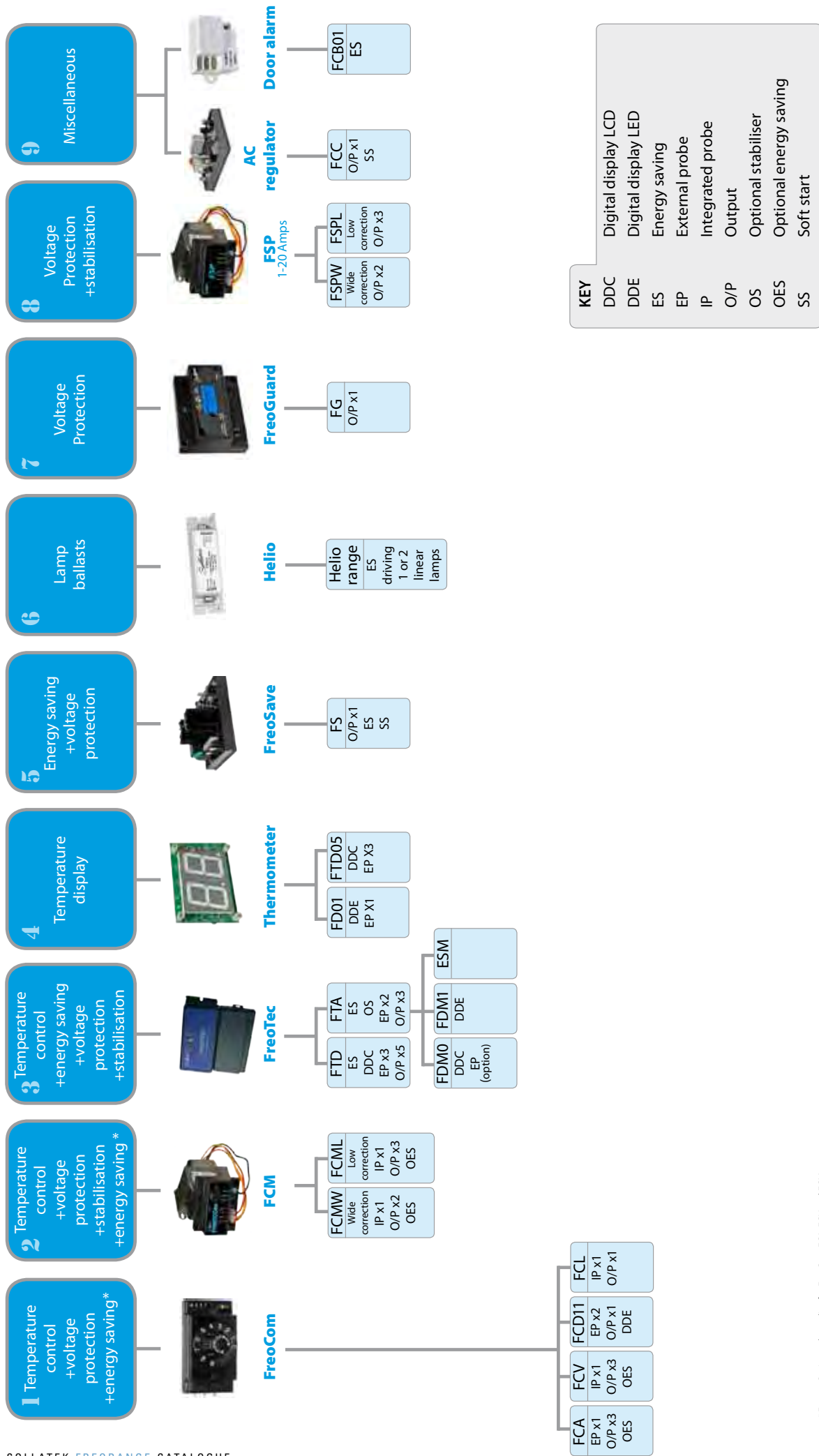
The Sollatek FreoRange offers a comprehensive suite of temperature control, energy saving, voltage stabilisation and protection measures for refrigeration equipment.

Sollatek offers a wide range of standard products as well as a service to customers with bespoke requirements. We have many years of experience working with OEMs and developing new and innovative products.

FreoRange products are designed to meet the needs of OEMs whose customers:

- need the product vended at optional temperature
- seek efficient thermostatic control
- need to conserve energy
- need to comply with international energy-efficiency regulations
- operate in regions of poor and erratic mains power supplies
- require fewer call-outs

FreoRange overview



KEY	
DDC	Digital display LCD
DDE	Digital display LED
ES	Energy saving
EP	External probe
IP	Integrated probe
O/P	Output
OS	Optional stabiliser
OES	Optional energy saving
SS	Soft start

* Energy Saving only applies for FreoCom FCA, FCV and FCM as an extended option

1. Temperature control, voltage protection, and energy saving

Freocom FCA



Model	Product Code
FCA1-115V	92371100
FCA1-230V	92372100
FCA2-115V	92371200
FCA2-230V	92372200
FCA3-115V	92371300
FCA3-230V	92372300

Temperature control, voltage protection and optional energy saving for all fridges, freezers, and coolers

A **direct retrofit** to the electro/mechanical thermostat, Sollatek FreoCom FCA delivers highly accurate temperature measurement and control. Available in 3 versions with 1, 2 or 3 outputs.

- Highly accurate temperature measurement and control – not affected by barometric pressure
- Direct retrofit to the electro/mechanical thermostat
- Timed/automatic defrost
- Low voltage protection
- High voltage protection
- Spike/surge protection
- Water splash resistance for rugged applications
- In-circuit programming – allowing the units to be re-programmed while installed in the field
- External remote temperature probe for precise positioning
- Temperature dial user adjustable in-situ. Range can be OEM specified
- * Optional energy saving (FCA2 and FCA3 only)

Current rating	FCA1: 1 x 16A FCA2: 1 x 16A, 1 x 3A FCA3: 1 x 16A, 2 x 3A
Weight (Kg)	FCA1: 0.099 FCA2: 0.103 FCA3: 0.107
Dimension (mm) h x w x d	58 x 82 x 42
No. of temperature probes	1
No. of control outputs	FCA1: 1 FCA2: 2 FCA3: 3



Freocom FCV



Model	Product Code
FCV10-115	92353100
FCV10-230	92352100
FCV30-115	92353300
FCV30-230	92352300

Temperature control and voltage protection for all fridges, freezers, and coolers

Delivers highly accurate temperature measurement and control. Available in 2 versions with 1 or 3 outputs.

- Highly accurate temperature measurement and control – not affected by barometric pressure
- Timed/automatic defrost
- Low voltage protection
- High voltage protection
- Spike/surge protection
- Water splash resistance for rugged applications
- In-circuit programming – allowing the units to be re-programmed while installed in the field
- Integrated temperature probe
- * Optional energy saving (FCV30 only)

Current rating	FCV10: 1 x 16A FCV30: 2 x 16A, 1 x 3A
Weight (Kg)	FCV10: 0.143 FCV30: 0.166
Dimension (mm) h x w x d	37 x 90 x 72
No. of temperature probes	1 – integrated
No. of control outputs	FCV10: 1 FCV30: 3



Freocom FCD11



Model	Product Code
FCD11- Red	92306310
FCD11- Green	92305310
FCD11- Blue	92304310

Large format temperature control and voltage protection for all fridges, freezers, and coolers

With highly accurate temperature control and display, provides a large, bright display visible from a distance of at least 20m.

- Highly accurate temperature measurement and control – not affected by barometric pressure.
- Low voltage protection
- High voltage protection
- Automatically determines 230V/110V operation for voltage protection function based on supply at switch-on. Can be forced to 230V or 110V by jumper selection if preferred.
- Large 2.24inch/57mm double-digit display of the measured temperature in celsius or fahrenheit scales. Available in red, green or blue.
- Manual adjustment of display brightness with automatic compensation for variations in ambient lighting.
- Universal input voltage.
- Spike/surge protection
- Open frame design for mounting behind displays
- Thermometer only option available - FCD01
- In-circuit programming – allowing the units to be re-programmed while installed in the field
- External remote temperature probe for precise positioning

Current rating	25A
Weight (Kg)	0.177
Dimension (mm) h x w x d	89 x 129 x 43
No. of temperature probes	2
No. of control outputs	1



Freocom FCL



Model	Product Code
FCL16-115	92301610
FCL16-230	92301620

Temperature control and voltage protection for all fridges, freezers, and coolers

Delivers highly accurate temperature measurement and control. A miniature low cost controller with integral temperature probe

- Miniature and low cost
- Highly accurate temperature measurement and control – not affected by barometric pressure.
- Timed/automatic defrost
- Low voltage protection
- High voltage protection
- Spike/surge protection
- Water splash resistance for rugged applications
- In-circuit programming – allowing the units to be re-programmed while installed in the field
- Integrated temperature probe

Current rating	16A
Weight (Kg)	0.078
Dimension (mm) h x w x d	35 x 60 x 48
No. of temperature probes	1 – integrated
No. of control outputs	1



2. Temperature control, voltage protection, stabilisation and energy saving *

FreoCom FCM

Temperature control, voltage protection, stabilisation and optional energy saving for all fridges, freezers, and coolers



- Highly accurate temperature measurement and control – not affected by barometric pressure
- Timed/automatic defrost
- Low voltage protection
- High voltage protection
- Voltage stabilisation by means of an external transformer
- Spike/surge protection
- Water splash resistance for rugged applications
- In-circuit programming – allowing the units to be re-programmed while installed in the field
- Integrated temperature probe
- * Optional energy saving

Current rating	FCMW: 1 x 16A, 1 x 3A FCML: 2 x 16A, 1 x 3A
Weight (Kg)	0.136
Dimension (mm) h x w x d	37 x 90 x 72
No. of temperature probes	1 – integrated
No. of control outputs	FCMW: 2 FCML: 3
Regulation	FCMW: large boost, small boost, 1:1, buck FCML: boost, 1:1

Model
FCM

Product Code
Call sales



Input and output voltage range

FCMW			FCML		
230V	115V	127V	230V	115V	127V
144	off	72	off	79	off
145	182	73	91	80	101
155	196	78	98	86	108
165	208	83	104	91	115
175	221	88	111	97	122
185	233	93	117	102	129
195	221	98	111	108	136
205	232	103	116	113	127
210	237	105	119	116	130
215	215	108	108	119	133
225	225	113	113	124	124
235	235	118	118	130	130
240	240	120	120	133	133
245	218	123	109	135	135
255	228	128	114	141	125
265	237	133	119	146	130
275	248	138	124	152	135
285	255	143	128	157	140
290	259	145	130	164	146
291	off	146	off	165	off

3. Temperature control, voltage protection, energy saving, and stabilisation

FreoTec FTD



Temperature control, energy saving and voltage protection for all fridges, freezers, and coolers

Delivers highly accurate temperature measurement and control. Featuring universal input voltage and energy saving by means of temperature set-back. Features digital display of the measured temperature and various operational alarms, as well as viewing and setting of many operational parameters.

- Highly accurate temperature measurement and control – not affected by barometric pressure
- Energy saving by means of temperature set-back, fan cycle etc
- Timed or/and dynamic automatic defrost
- Predictive energy saving via KBC (Knowledge Based Control)
- Low and high voltage protection
- DIN standard panel mount – 45mm x 92mm cut-out
- Universal input voltage
- Digital display
- Front panel programmable buttons
- Spike/surge protection
- Water splash resistance for rugged applications
- In-circuit programming – allowing the units to be re-programmed while installed in the field
- External remote temperature probe for precise measurement

Current rating	FTD1y: 1x16A FTD2y: 1x16A, 1x3A FTD3y: 1x16A, 2x3A FTD4y: 1x16A, 3x3A FTD5y: 1x16A, 4x3A
Weight (Kg)	0.147
Dimension (mm) h x w x d	43 x 90 x 59
No. of temperature probes	3
No. of control outputs	FTD1x: 1-5 (depending on model)

Model **Product Code**
 FTDXYE 92412XY0
 X: Number of outputs
 Y: Number of temperature probes



FreoTec FTA



Temperature control, energy saving, voltage protection and stabilisation for all fridges, freezers, and coolers

Delivers highly accurate temperature measurement and control. Featuring universal input voltage and energy saving by means of temperature set-back. Features digital display of the measured temperature and various operational alarms, as well as viewing and setting of many operational parameters by means of an external digital display.

- Highly accurate temperature measurement and control – not affected by barometric pressure
- Energy saving by means of temperature set-back, fan cycle etc
- Timed or/and dynamic automatic defrost
- Low and high voltage protection
- Universal input voltage
- Spike/surge protection
- Water splash proof for rugged application
- In-circuit programming – allowing the units to be re-programmed while installed in the field
- External remote temperature probes for precise measurement
- Reduced running costs and extended compressor life
- Optional** Voltage stabilisation by means of an external transformer
- Optional** External switch module (**Energy Saving Switch Module ESM**) to activate/de-activate energy saving mode manually
- Optional** Digital display of the temperature and various operational alarms, as well as viewing and setting many operational parameter by means of an external digital display unit (**FDM0: LCD version, FDM1: LED version**)

Current rating	FTA1: 1x16A FTA2: 2x16A FTA3: 3x16A
Weight (Kg) excl. display & transformer	FTA1: 0.315 FTA2: 0.332 FTA3: 0.349
Dimension (mm) h x w x d	43 x 150 x 135
No. of temperature probes	2
No. of control outputs	FTA1: 1 FTA2: 2 FTA3: 3

Model **Product Code**
 FTA1-115V 92361100
 FTA1-230V 92362100
 FTA2-115V 92361200
 FTA2-230V 92362200
 FTA3-115V 92361300
 FTA3-230V 92362300



FreoTec FTA optional extra

FDM0



LCD digital display suitable for DIN panel mounting

With an LCD digital display, Sollatek FDM0 displays the current temperature measured by the FTA unit, or by its own temperature probe (if fitted). It also includes a display of various operational alarms and a built-in menu that displays and modifies some parameters and variables of the FreoTec FTA unit.

- LCD type digital display of viewing area of 37mm x 14mm.
- DIN standard panel mount – 45mm x 92mm cut-out.
- Water splash proof for rugged application
- In-circuit programming – allowing the units to be re-programmed while installed in the field

Model
FDM0

Product Code
92390000

Current rating	N/A
Weight (Kg)	0.086
Dimension (mm) h x w x d	43 x 90 x 59
No. of temperature probes	1 (optional - FDM01)
No. of control outputs	N/A

FreoTec FTA optional extra

FDM1



LED digital display suitable for din panel mounting

With an LED digital display, Sollatek FDM1 displays the current temperature measured by the FTA unit. It also includes a display of various operational alarms and a built-in menu that displays and modifies some parameters and variables of the FreoTec FTA unit.

- LED type digital display of viewing area of 37mm x 14mm.
- 0.52" 7-segment LEDs, and it comes in two colours, red and green.
- DIN standard panel mount – 45mm x 92mm cut-out
- Water splash proof for rugged application
- In-circuit programming – allowing the units to be re-programmed while installed in the field

Model
FDM1

Product Code
92391000

Current rating	N/A
Weight (Kg)	0.086
Dimension (mm) h x w x d	43 x 90 x 59
No. of temperature probes	N/A
No. of control outputs	N/A

FreoTec FTA optional extra

Energy Saving Module ESM



External module for indication and manual activation/de-activation of energy saving mode of the FreoTec FTA unit.

- small size
- energy save button
- status indicator

Model
Energy Saving Module

Product Code
9A110000

Weight (Kg)	0.127
Dimension (mm) h x w x d	19 x 44 x 28

4. Temperature display

FD01



Large format temperature monitor

Highly accurate LED temperature measurement display.

Large and bright 2.24inch/57mm Double-Digit display of the measured temperature in Celsius or Fahrenheit scales. Open frame design for mounting behind displays. Visible from a distance of at least 20m.

Model	Product Code
FD01-Red	92306010
FD01-Green	92305010
FD01-Blue	92304010

- Accurate temperature measurement
- Large display
- Manual adjustment of display brightness with automatic compensation for variations in ambient lighting
- Universal input voltage
- Open frame design for mounting behind displays
- In-circuit programming – allowing the units to be re-programmed while installed in the field
- Available in red, green or blue display

Supply voltage	80-26 VAC
Weight (Kg)	0.170
Dimensions (mm)	89x129x43
No. of temperature probes	1



FD05



Temperature monitor

LCD digital display of the temperature, not affected by barometric pressure.

Model	Product Code
FD05	Call Sales

- Highly accurate temperature measurement
- DIN standard panel mount – 45mm x 92mm cut-out
- Universal input voltage
- Water splash proof for rugged applications
- Audible alarm to warn of temperature out of range
- In-circuit programming – allowing the units to be re-programmed while installed in the field

Current rating	N/A
Weight (Kg)	0.147
Dimension (mm) h x w x d	43 x 90 x 59
No. of temperature probes	Up to 3
No. of control outputs	N/A



5. Energy saving and voltage protection

FreoSave



Energy saving, soft starter and voltage protection for all fridges, freezers, and coolers

Offers an enhanced energy saving capability. The FreoSave can achieve between 5% and 25% savings on energy consumption.

Model	Product Code
FS05	91605000
FS10	91610000
FS15	91615000

- Energy saving of up to 25%
- Reduction of compressor start-current by up to 40% through a soft-start feature
- Low and high voltage protection
- Reduced running costs and extended compressor life
- Spike/surge protection
- Water splash proof for rugged application
- Aids compliance with energy efficiency and voltage flicker regulations.
- In-circuit programming – allowing the units to be re-programmed while installed in the field

Current rating	FS05: 1x5A FS10: 1x10A FS15: 1x15A
Weight (Kg)	FS05: 0.143 FS10: 0.163 FS15: 0.183
Dimension (mm) h x w x d	FS05: 61 x 90 x 70 FS10: 48 x 90 x 70 FS15: 72 x 90 x 70
No. of temperature probes	N/A
No. of control outputs	1



6. Lamp ballasts

Helio



Model	Product Code
A15328	968A15328
A18328	968A18328
A30328	968A30328
A36328	968A36328



High frequency fluorescent lighting ballast

Sollatek AC lamp ballasts provide high frequency electronic drive for fluorescent lamps in many applications including coolers and fridges. Providing efficient, reliable lighting of product areas and advertising panels.

- High efficiency, energy saving design
- High frequency operation reduces flicker and improves lamp efficiency
- Input power factor (>0.9)
- Wide input voltage range 200V – 260Vac rms
- Flexibility: can drive 1 or 2 lamps
- Spring-loaded push-fit connectors for ease of installation
- Small size

Lamp	A15328: 1,2 x 15W T8 A18328: 1,2 x 18W T8 A30328: 1,2 x 30W T8 A36328: 1,2 x 36W T8
Weight (Kg)	A15328: 0.195 A18328: 0.195 A30328: 0.184 A36328: 0.184
Dimensions (mm)	175 x 45 x 40

7. Voltage protection

Freoguard



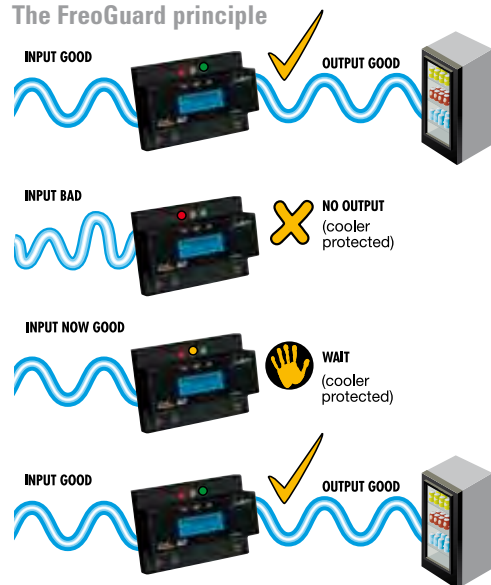
Voltage protection for all fridges, freezers, and coolers

Provides complete voltage protection for fridges and freezers from all power supply fluctuations.

Motors generally, and refrigeration compressors specifically are susceptible to damage from under voltage. The motor (particularly the compressor in a refrigeration system) draws more current to compensate for the lower mains supply voltage, burning out its windings, or at least reducing its useful life. Over-voltage is potentially damaging to all electrical and electronic equipment. One particularly damaging condition can occur when the supply returns after the mains has been off, as reinstatement of the supply is frequently accompanied by high voltage surges and transients. The Freoguard protect equipment by disconnecting the mains supply when it goes either below or above pre-set acceptable limits. It also has an Intelligent time delay* providing added protection against frequent stops and starts.

Intelligent Start up delay: By monitoring the mains supply at all times, if the unit has been switched off for a long period, the Freoguard reduces its own start up delay to maximize operation time.

The Freoguard principle



Current rating	FG16: 1 x 16A FG30: 1 x 30A
Weight (Kg)	FG16: 0.136 FG30: 0.147
Dims mm (h x w x d)	37 x 90 x 72
No. of temperature probes	N/A
No. of control outputs	1

- High voltage protection
- Low voltage protection
- Spike / surge protection
- Water splash resistance for rugged applications
- Suitable for air conditioners up to 30A or 24,000 BTU

TIMESAVE™ description



The Freoguard has a built-in micro-processor which adds the advanced feature TimeSave™. TimeSave™ means that when the mains returns to normal, the Freoguard checks the duration of the OFF time. If the unit has been off for more than 3 minutes then it will reconnect the mains within 30 seconds rather than the standard 3 minutes. This means the Sollatek Freoguard will give you more vital working time than any other protection unit.

Model	Product Code
FG16-115V	92340000
FG16-230V	92344000
FG30-115V	92344400
FG30-230V	92344300



See TIMESAVE™ description above

8. Voltage protection and stabilisation

FSP*



Voltage protection and stabilisation for all fridges, freezers, and coolers

Provides a clean, regulated AC power supply to OEM equipment in environments with unreliable, fluctuating mains supply.

Voltage fluctuations can have a serious and detrimental effect on motors and compressors, reducing or eliminating their effective cooling output, and, very commonly, causing damage to the compressor. The Sollatek Freo Stabilised Protector (FSP)* is an intelligent stabiliser plus protector combined. The FSP provides clean, regulated AC power supply that can be incorporated in any refrigeration appliance.

The FSP builds on the protection provided by the FreoGuard by ensuring the mains supply is corrected to good working limits and in the event the drop or rise in voltage is too extreme and beyond the range of the FSP, it will disconnect the power and provide the intelligent start up delay.

The FSP is available in 2 different ranges, FSPW and FSPL. The FSPW provides the widest range of voltage stabilisation and the FSPL has the lowest range. The lowest range is for areas of low voltage problems whilst the FSPW is for areas of severe and chronic voltage fluctuations.

Hundreds of thousands of Sollatek protectors are now in use in fridges, freezers, bottle coolers and air-conditioners worldwide and have proved to be extremely effective economically in reducing maintenance costs and down time.

In some countries the mains voltage is low or fluctuating most of the time. In these situations the compressor is certain to suffer damage in time and furthermore its cooling function is severely handicapped. In these situations the only solution is to fit a Sollatek FSP.

In these countries the Sollatek FSP can be depended on to greatly improve compressor reliability, in otherwise unreliable mains environments.

* formerly known as ASP

	Standard range	High current range
Current rating	FSPW: 1 x 16A, 1 x 3A FSPL: 2 x 16A, 1 x 3A	FSPW: 1 x 20A FSPL: 1 x 20A
Weight† Kg	0.136	0.323
Dims† mm (h x w x d)	37 x 90 x 72	112 x 95 x 30
No. of temperature probes	N/A	N/A
No. of control outputs	FSPW: 2 FSPL: 3	FSPW: 1 FSPL: 1
Regulation	FSPW: large boost, small boost, 1:1, buck FSPL: boost, 1:1	

† excluding transformer. Contact sales for more information.

- Voltage stabilisation
- Low voltage protection
- High voltage protection
- Spike/surge protection
- Water splash resistance for rugged applications
- In-circuit programming allowing the units to be re-programmed while installed in the field
- Time delay on restart

Input and output voltage range

FSPW			FSPL		
230V	115V	127V	230V	115V	127V
144 off	72 off	79 off	158 off	78 off	86 off
145 182	73 91	80 101	160 182	79 89	88 100
155 196	78 98	86 108	165 188	83 95	92 105
165 208	83 104	91 115	175 200	88 100	97 111
175 221	88 111	97 122	185 211	93 106	103 117
185 233	93 117	102 129	195 222	98 112	108 123
195 221	98 111	108 136	205 234	103 117	114 130
205 232	103 116	113 127	210 239	105 120	116 132
210 237	105 119	116 130	215 245	108 123	119 136
215 215	108 108	119 133	225 225	113 113	125 125
225 225	113 113	124 124	235 235	118 118	130 130
235 235	118 118	130 130	240 240	120 120	133 133
240 240	120 120	133 133	245 245	123 123	136 136
245 218	123 109	135 135	255 255	127 127	142 142
255 228	128 114	141 125	259 259	129 129	146 146
265 237	133 119	146 130	260 off	130 off	147 off
275 248	138 124	152 135			
285 255	143 128	157 140			
290 259	145 130	164 146			
291 off	146 off	165 off			

Model **Product Code**
FSP for exact model required,
 call sales



9. Miscellaneous

FCC



Model	Product Code
FCC03	91605000
FCC10	91610000
FCC15	91615000

Low voltage regulated power supply

Regulated electronic step-down AC power supply for all fridges and freezer accessories.

- Regulated AC power supply for a wide input range, 75VAC to 280VAC
- Suitable for powering glass door heaters, demisters, defrost heaters etc
- High accuracy output to within 1%
- Optional soft-start feature for start-up current limitation
- Low and high voltage protection
- Spike/surge protection
- Very light weight
- Water splash proof for rugged application
- In-circuit programming – allowing the units to be re-programmed while installed in the field

Current rating	FCC03: 3A FCC10: 10A FCC15: 15A
Weight (Kg)	0.138
Dimensions (mm)	32x90x70
No. of Temperature Probes	N/A
No. of Control Outputs	1



FCB01



Model	Product Code
FCB01	92310000

Door Alarm

A small alarm that attracts attention when the cooler door is left open for more than a certain time. This helps prevent warm product and saves energy.

- Audible alarm
- Custom time delay (2mins standard)
- Wide voltage range of 80-300V AC
- Connects to door switch
- Indicator LED

Voltage range	80-300V
Weight (Kg)	0.078
Dimension (mm) h x w x d	35 x 60 x 48
No. of temperature probes	N/A





	FCA			FCV		FCD11	FCL	FCM		FTD	FTA1
	FCA1	FCA2	FCA3	FCV10	FCV30			FCML	FCMW		
Electronic Thermostatic Control											
Timed Defrost	✓	✓	✓	✓	✓	✓*	✓	✓	✓	✓	✓
Active Defrost	✓	✓	✓			✓*				✓	✓
Probes	1	1	1	1	1	2**	1	1	1	3	2
Digital Temperature Display						✓				✓	✓°
User Adjustable Temperature Setting	✓	✓	✓							✓	✓°
Energy Saving											
Temperature Set-Back										✓	✓~
Waveform Modification											
Fan Cycle or other		✓	✓		✓			✓	✓	✓	
Voltage Protection											
High Voltage Disconnect	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Low Voltage Disconnect	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Voltage Stabilisation											
Boost Taps								1	2		2
Boost Range for O/P ± 6%								-17%	-17%		-25%
Boost Range for O/P ± 10%								-21%	-21%		-29%
Buck Taps									1		1
Buck Range for O/P ± 6%									+19%		+19%
Buck Range for O/P ±10%									+24%		+24%
Extras											
Spike Protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Time Delay on Re-start	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intelligent Time Delay	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
In-Circuit Programming	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Profile Function	✓	✓	✓								
Alarms											
Alarm Buzzer										✓	✓
NTC Fault	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Out of Range - Temperature	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Out of Range - Voltage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Internal Fault	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Current Rating											
Outputs	1	2	3	1	3	1	1	3	2	5	1
Output 1	16A	16A	16A	16A	16A	25A	16A	1A-16A	1A-16A	16A	16A
Output 2		3A	3A		16A			16A	3A	3A	
Output 3			3A		3A			3A		3A	
Output 4										3A	
Output 5										3A	
Nominal Operating Voltages											
Operating Frequency											
Mechanical											
Dimensions (mm) h x w x d	58x32x42	58x32x42	58x32x42	37x90x72	37x90x72	89x129x43	35x60x48	†	†	43x90x59	43x150x135
Weight (kg)	0.099	0.103	0.107	0.143	0.166	0.177	0.078	†	†	0.147	0.315

* Optional

** 2nd probe is optional.

° optional FDM0-LCD, FDM1-LED

~ via FDM0 or FDM1 or ESM or Door switch

† Refer to brochure



FTA		FD01	FD05	FreoSave			Ballast	FreoGuard		FSP		FCC			FCB01
FTA2	FTA3			FS05	FS10	FS15	Helio	FG16	FG30	FSPL	FSPW	FCC03	FCC10	FCC15	
✓	✓														
✓	✓														
2	2	1	3												
✓°	✓°	✓	✓												
✓°	✓°														
✓~	✓~														
				✓	✓	✓									
✓	✓														
✓	✓			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
✓	✓			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
2	2									1	2				
-25%	-25%									-17%	-25%				
-29%	-29%									-21%	+29%				
1	1										1				
+19%	+19%										+19%				
+24%	+24%										+24%				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓			✓	✓	✓		✓	✓	✓	✓				✓
✓	✓			✓	✓	✓		✓	✓	✓	✓				
✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	
				✓	✓	✓						✓	✓	✓	
✓	✓		✓												✓
✓	✓	✓	✓												
✓	✓	✓	✓												
✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
2	3			1	1	1	1 or 2	1	1	3	2	1	1	1	
16A	16A			5A	10A	15A		16A	30A	1A-20A	1A-20A	3A	10A	15A	
16A	16A									16A	3A				
	16A									3A					

110V to 240V

35-75Hz

43x150x135	43x150x135	80x129x43	43x90x59	61x90x70	48x90x70	72x90x70	175x45x40	37x90x72	37x90x72	†	†	32x90x70	32x90x70	32x90x70	35x60x48
0.332	0.349	0.170	0.147	0.143	0.163	0.183	†	0.136	0.147	†	†	0.138	0.138	0.138	0.078

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